SEQUENCE LISTING

<110> Afar, Daniel
        Hubert, Rene S.
        Leong, Kahan
        Raitano, Arthur B.
        Saffran, Douglas C.
        Mitchell, Steve Chappell

<120> NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
    EXPRESSED IN HUMAN CANCERS AND USES THEREOF

<130> 511582001601

<140> US 10/010,667
<141> 2001-12-06

<150> 09/323,873
<151> 1999-06-01

<150> 60/087,520
<151> 1998-06-01

<150> 60/091,183
<151> 1998-06-30

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ggagaaattt agaagaagac gattatttgc ataaggacac gggagagacc agcatgctaa     180
aaagacctgt gcttttgcat ttgcaccaaa cagcccatgc tgatgaattt gactgccctt     240
cagaacttca gcacacacag gaactctttc cacagtggca cttgccaatt aaaatagctg     300
ctattatagc atctctgact tttctttaca ctcttctgag ggaagtaatt caccctttag     360
caacttccca tcaacaatat ttttataaaa ttccaatcct ggtcatcaac aaagtcttgc     420
caatggtttc catcactctc ttggcattgg tttacctgcc aggtgtgata gcagcaattg     480
tccaacttca taatggaacc aagtataaga agtttccaca ttggttggat aagtggatgt     540
taacaagaaa gcagtttggg cttctcagtt tcttttttgc tgtactgcat gcaatttata     600
gtctgtctta cccaatgagg cgatcctaca gatacaagtt gctaaactgg gcatatcaac     660
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ttgttgtcct gatatttaaa agcatactat tcctgccatg cttgaggaag aagatactga    1020
agattagaca tggttgggaa gacgtcacca aaattaacaa aactgagata tgttcccagt    1080
tgtagaatta ctgtttacac acatttttgt tcaatattga tatattttat caccaacatt    1140
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Gly Glu Thr Ser Met Leu Lys Arg Pro Val Leu Leu His Leu His Gln
        35                  40                  45
Thr Ala His Ala Asp Glu Phe Asp Cys Pro Ser Glu Leu Gln His Thr
    50                  55                  60
Gln Glu Leu Phe Pro Gln Trp His Leu Pro Ile Lys Ile Ala Ala Ile
65                  70                  75                  80
Ile Ala Ser Leu Thr Phe Leu Tyr Thr Leu Leu Arg Glu Val Ile His
                85                  90                  95
Pro Leu Ala Thr Ser His Gln Gln Tyr Phe Tyr Lys Ile Pro Ile Leu
                100                 105                 110
Val Ile Asn Lys Val Leu Pro Met Val Ser Ile Thr Leu Leu Ala Leu
            115                 120                 125
Val Tyr Leu Pro Gly Val Ile Ala Ala Ile Val Gln Leu His Asn Gly
    130                 135                 140
Thr Lys Tyr Lys Lys Phe Pro His Trp Leu Asp Lys Trp Met Leu Thr
145                 150                 155                 160
Arg Lys Gln Phe Gly Leu Leu Ser Phe Phe Phe Ala Val Leu His Ala
                165                 170                 175
Ile Tyr Ser Leu Ser Tyr Pro Met Arg Arg Ser Tyr Arg Tyr Lys Leu
                180                 185                 190
Leu Asn Trp Ala Tyr Gln Gln Val Gln Gln Asn Lys Glu Asp Ala Trp
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Ile Glu His Asp Val Trp Arg Met Glu Ile Tyr Val Ser Leu Gly Ile
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225                 230                 235                 240
Val Ser Asp Ser Leu Thr Trp Arg Glu Phe His Tyr Ile Gln Ser Lys
                245                 250                 255
Leu Gly Ile Val Ser Leu Leu Leu Gly Thr Ile His Ala Leu Ile Phe
                260                 265                 270
Ala Trp Asn Lys Trp Ile Asp Ile Lys Gln Phe Val Trp Tyr Thr Pro
            275                 280                 285
Pro Thr Phe Met Ile Ala Val Phe Leu Pro Ile Val Val Leu Ile Phe
    290                 295                 300
Lys Ser Ile Leu Phe Leu Pro Cys Leu Arg Lys Lys Ile Leu Lys Ile
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<220>
<223> Primer

<400> 4
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<210> 5
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 5
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<210> 6
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<212> DNA
<213> Homo sapiens

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accaagaaga actttggaaa atgaagccta ggagaaattt agaagaagac gattatttgc   180
ataaggacac gggagagacc agcatgctaa aaagacctgt gcttttgcat ttgcaccaaa   240
cagcccatgc tgatgaattt gactgccctt cagaacttca gcacacacag gaactctttc   300
cacagtggca cttgccaatt aaaatagctg ctattatagc atctctgact tttctttaca   360
ctcttctgag ggaagtaatt caccccttag caacttccca tcaacaatat ttttataaaa   420
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tctttttttgc tgtactgcat gcaatttata gtctgtctta cccaatgagg cgatcctaca   660
gatacaagtt gctaaactgg gcatatcaac aggtccaaca aaataaagaa gatgcctgga   720
ttgagcatga tgtttggaga atggagattt atgtgtctct gggaattgtg ggattggcaa   780
tactggctct gttggctgtg acatctattc catctgtgag tgactctttg acatggagag   840
aatttcacta tattcaggta aataatatat aaaataaccc taagaggtaa atcttctttt   900
tgtgtttatg atatagaata tgttgacttt accccataaa aaataacaaa tgtttttcaa   960
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accatgtcca gctaattttt gtatttttag tagagacagg gtttttccat gttggccagg   1320
ctggtctcga tctcctgacc tcaaatgatc cgcccacctc ggcctcccaa agtgctggga   1380
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3

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ttaaactgga gagaattcag ttttattcag tctacacttg gatatgtcgc tctgctcata    480
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4

<213> Homo sapiens

<400> 8

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            20                  25                  30
Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr Arg Arg Phe Pro Pro
        35                  40                  45
Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln Leu Gly Leu Leu Ser
    50                  55                  60
Phe Phe Phe Ala Met Val His Val Ala Tyr Ser Leu Cys Leu Pro Met
65                  70                  75                  80
Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met Ala Tyr Gln Gln Val
                85                  90                  95
His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu Glu Val Trp Arg Ile
            100                 105                 110
Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu Gly Leu Leu Ser Leu
        115                 120                 125
Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn Ala Leu Asn Trp Arg
    130                 135                 140
Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr Val Ala Leu Leu Ile
145                 150                 155                 160
Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys Arg Ala
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<210> 9
<211> 322
<212> DNA
<213> Homo sapiens

<400> 9

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attactttgc tctccctagt ataccttgca ggtcttctgg cagctgctta tcaactttat     180
tacggcacca agtataggag atttccacct tggttggaaa cctggttaca gtgtagaaaa     240
cagcttggat tactaagttg tttcttcgct atggtccatg ttgcctacag cctctgctta     300
ccgatgagaa ggtcagagag at                                             322
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<210> 10
<211> 183
<212> DNA
<213> Homo sapiens

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tgtgactgag tgttggccag tgagatgaag tctcctcaaa ggaaggcagc atgtgtcctt     180
ttt                                                                 183
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<210> 11
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<213> Homo sapiens

<400> 11

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aatgcagtca actggagaga gttccgattt gtccagtcca aactgggtta tttgaccctg    180
atcttgtgta cagcccacac cctggtgtac ggtgggaaga gattcctcag cccttcaaat    240
ctcagatggt atcttcctgc agcctacgtg ttagggctta tcattccttg cactgtgctg    300
gtgatcaagt ttgtcctaat catgccatgt gtagacaaca cccttacaag gatccgccag    360
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gttctacctn cctcccacct tcacgntcac gctgctggtg ccctgcgttc gttcatcctg    360
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<210> 13
<211> 23
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<213> Artificial Sequence

<220>
<223> RT-PCR Primer AI139607.1

<400> 13
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<211> 24
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<220>
<223> RT-PCR primer AI139607.2

<400> 14
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<210> 15
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<220>
<223> RT-PCR primer R80991.1

<400> 15
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<210> 16
<211> 24
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<220>
<223> RT-PCR primer R80991.2

<400> 16
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<210> 17
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> RT-PCR primer 98P4B6.1

<400> 17
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<210> 18
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<220>
<223> RT-PCR primer 98P4B6.2

<400> 18
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<210> 19
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> STEAP-1 peptide

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Lys Ile Pro Ile Leu Val
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<210> 20
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> STEAP-1 peptide

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            20                  25              30
Glu Ile


<210> 21
<211> 15
<212> PRT
<213> Artificial Sequence


<220>
<223> STEAP-1 PEPTIDE


<400> 21
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1               5                   10              15


<210> 22
<211> 14
<212> DNA
<213> Artificial Sequence


<220>
<223> cDNA Synthesis primer


<400> 22
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<210> 23
<211> 44
<212> DNA
<213> Artificial Sequence


<220>
<223> DNA Adaptor 1


<400> 23
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<210> 24
<211> 42
<212> DNA
<213> Artificial Sequence


<220>
<223> DNA Adaptor 2


<400> 24
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<210> 25
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<212> DNA
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<213> Artificial Sequence

<220>
<223> PCR primer 1

<400> 25
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<210> 26
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<212> DNA
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<210> 27
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<220>
<223> Nested primer (NP) 2

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<212> DNA
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<220>
<223> RT-PCR primer 1A

<400> 28
actttgttga tgaccaggat tgga   24

<210> 29
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> RT-PCR primer 1B

<400> 29
cagaacttca gcacacacag gaac   24

<210> 30
<211> 25
<212> DNA
<213> Artificial Sequence

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<223> primer

<400> 30
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<210> 31
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 31
agccacacgc agctcattgt agaagg                                             26

<210> 32
<211> 15
<212> PRT
<213> Homo sapiens

<400> 32
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 1               5                   10                  15
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